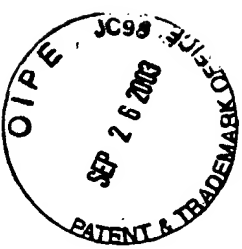


FIG. 1



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Data Flow Process and Interface

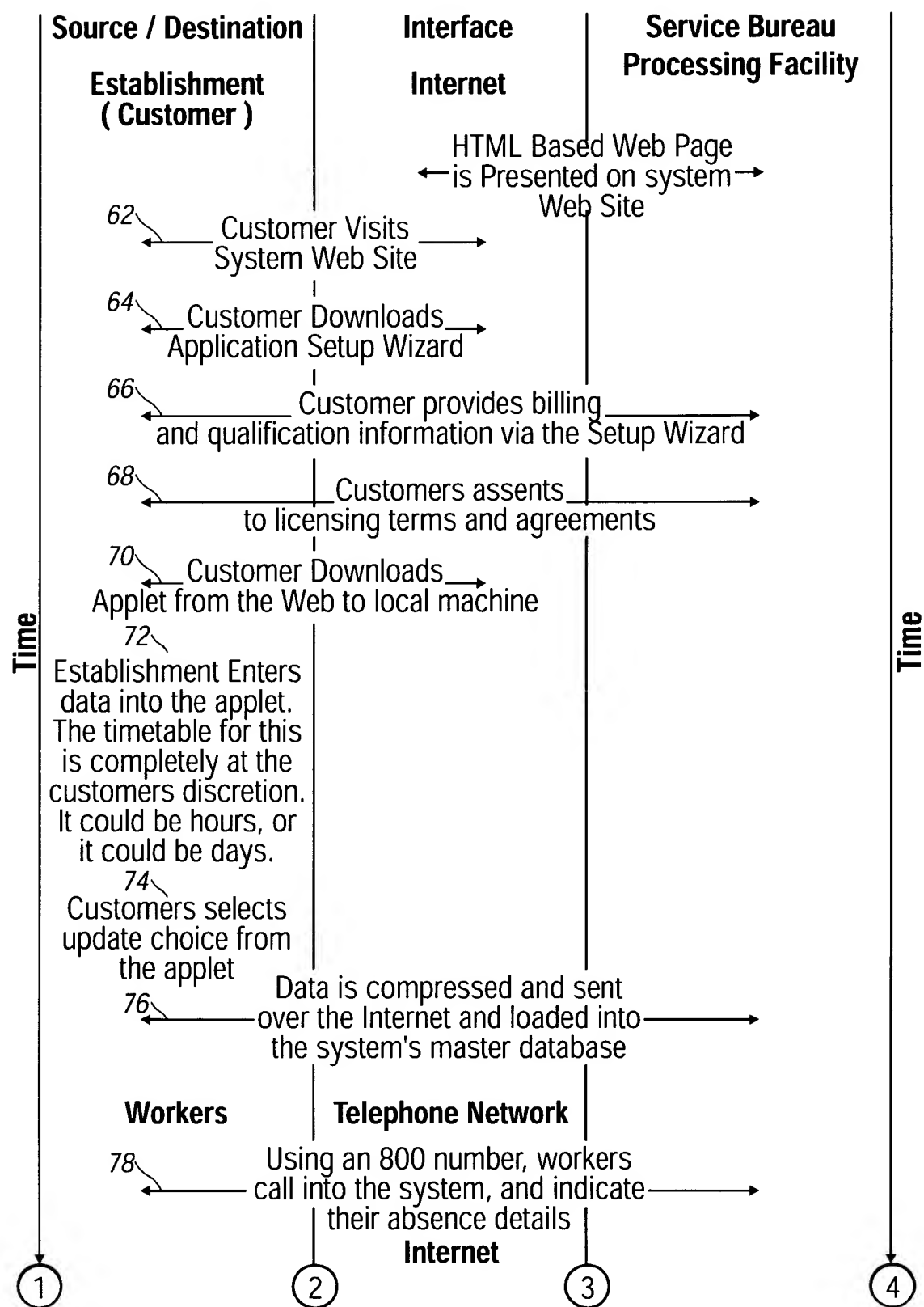
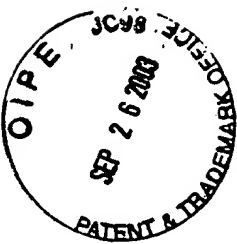


FIG. 2 (1 of 2)



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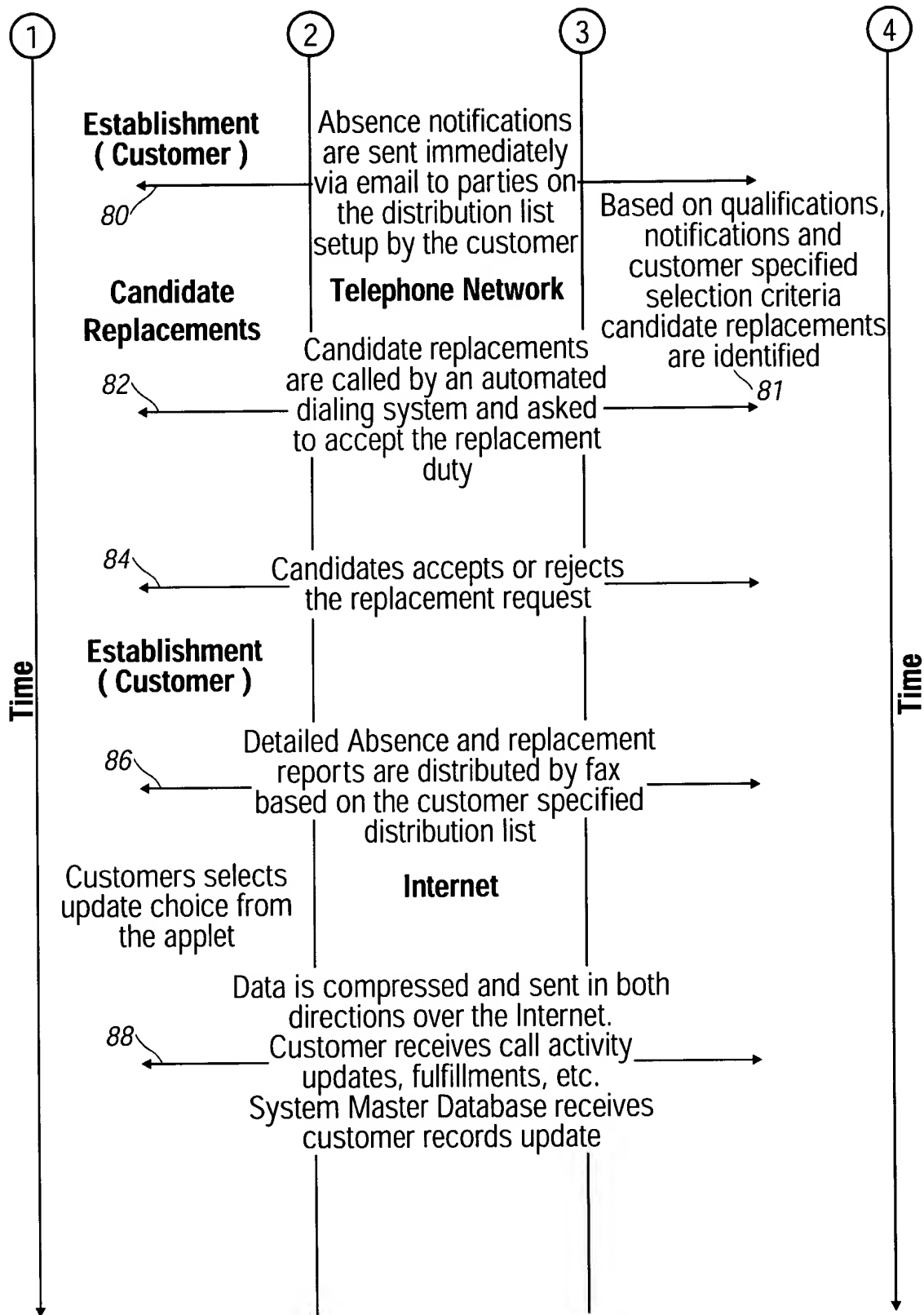


FIG. 2 (2 of 2)



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90

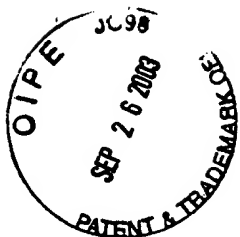
STAFF	
Name	92
Title	94
Social Security Number	96
Pin	98
Cross reference to billing contact	100
Certification(s)	102
Substitute preferences	104
Schedule manipulation	106
Absence record	108
School reference	110
District reference	112
County reference	114
E-mail address	116
Fax number	118
Room/Office number	120
Special flag for recorded messages	122
Entitlement balances	124
Availability	126
Call time preferences	128

FIG. 3

150

Pick-Lists	
Field preferences	152
Required	
Visible	
Default data	154
Field data	
Type	156
Certification	158
Entitlement types	160
People	162
Schools	164
District	

FIG. 5



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130

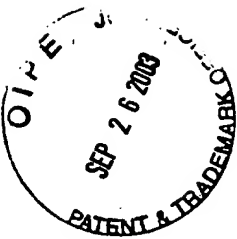
Business Data	132
Billing address	134
Mailing address	136
Billing contact	
Emergency contact	138
Evening	
Weekend	
Business	140
Phone number	142
Fax number	144
E-mail	146
PO #	148
Options turned on	

FIG. 4

166

School Data	168
Name	170
Code	172
Type	174
Principal	176
Fax	178
Assign fax list	180
Phone	182
Secretary	184
Assign substitute	186
Assign staff	188
Record/Play	

FIG. 6



190

County Data	192
Name	194
Code	196
State	198
Associate districts	200
Assign substitutes	

FIG. 7

202

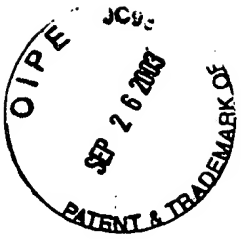
District Data	204
Name	206
Code	208
District address	210
Phone	212
Fax	214
Assign fax list	216
Administrator/Board secretary	218
Associate schools	220
Assign substitutes	222
Assign staff	224
Record/Play	

FIG. 8

226

Preferences	
Options	228
Calling numbers	
Select internet/intranet calling profiles	
Password	
Key value	

FIG. 9



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230 →

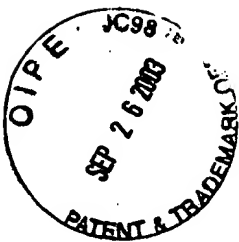
Reports	232
Acceptance/refusal history	234
Call History	236
Unfulfilled	237
Teacher manifest	238
Trend analysis	240
Substitute manifest	242
School manifest	244
Substitute performance	246
Acceptance rating	248
Flexibility rating	
Trend analysis	
Staff attendance	
Staff calendars	
Assignment reports	
School	
District	
County	

FIG. 10

250 →

Wizard	252
Phone	254
Emergency phone	256
Contact	258
Billing address	260
District	262
Title	264
Number of teachers (approx.)	266
Number of support staff (approx.)	268
Fax number	270
E-mail address optional	272
Billing contact optional	

FIG. 11



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ABSENTEE REPORT

276 **Date:** 1/8/98 **Time:** 14:40:08

Name	Social Security #	Phone #	Title	Time	Location
Smith, John, T.	005-75-2243	(609)-555-1111	Social Studies	14:39:50	Howard
	Date:	1/8/98			
	Type:	Sick			
	F/H Day:	Half Day/PM			

SUBSTITUTE ASSIGNMENT REPORT

278 **Date:** 1/8/98 **Time:** 17:08

Name: Smith, John, T.	SSN: 005-75-2243
Title: Social Studies gr 8	School ID: 011
Location: Howard	School: 50 South School Street
Substitute Information	
Name: Smith, Charles	SSN: 005-76-2214
Contact Date: 1/8/98	Time: 17:06

CALL HISTORY REPORT

279 **Date:** 1/8/98 **Time:** 17:08

Name: Smith, John, T.	SSN: 005-75-2243			
Date: 1/8/98	Time: 17:04	Line: Answer	Status: No Contact	Sub: Smith, Mark, C.
Date: 1/8/98	Time: 17:05	Line: Answer	Status: Rejected	Sub: Jones, Pat, B.
Date: 1/8/98	Time: 17:06	Line: Answer	Status: Accepted	Sub: Smith, Charles D.

UNFULFILLED SUBSTITUTE ASSIGNMENT REPORT

280 **Date:** 1/8/98 **Time:** 19:10

Name: Hitchens, Jack, R.	SSN: 008-73-2278
Title: English gr 11	School ID: 012
Location: Blair	School: 123 South Main Street

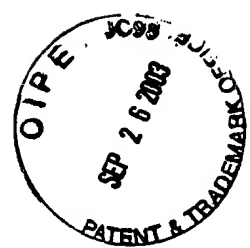
FIG. 12



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States		Events						
ST = State Transition	Start	Receive a call	Receive Valid Input	Receive Invalid Input	Timeout	Max Retries Reached		
Telephony Application								
Teacher Call-in								
281 Initial	Prompt for SS Number	Take phone offhook; Generate "Start" Event	ST: MainMenu	ST: ErrorState	ST: Hangup	N/A		
282 MainMenu	"1" Record Absence; "2" Listen to Entitlement Day Balances; "3" Special Instructions	N/A	"1" Pressed ST: Whenstep 1; "2" Pressed, Entitlements	Play Error Message; Generate "Start" Event	Play Error Message; Generate "Start" Event	ST: Goodbye		
283 Whenstep 1	"1" Today; "2" Another Day	N/A	"1" ST: Shift; "2" ST: WhenAnotherDay	Play Error Message; Generate "Start" Event	Play Error Message; Generate "Start" Event	ST: Goodbye		
284 WhenAnotherDay	Prompt for day of the month followed by the "#" sign	N/A	ST: Shift	Play Error Message; Generate "Start" Event	Play Error Message; Generate "Start" Event	ST: Goodbye		
285 Shift	"1" Full Day; "2" Half day AM; "3" Half day PM;	N/A	ST: Absence Type or if required ST: StartTime	Play Error Message; Generate "Start" Event	Play Error Message; Generate "Start" Event	ST: Goodbye		
286 StartTime	Prompt for a military time	N/A	ST: Absence Type	Play Error Message; Generate "Start" Event	Play Error Message; Generate "Start" Event	ST: Goodbye		
287 Absence Type	List Valid Absence Types from database	N/A	ST: ConfirmAbsence or if required ST: RecordInstructions	Play Error Message; Generate "Start" Event	Play Error Message; Generate "Start" Event	ST: Goodbye		
288 RecordInstructions	Play instructions for recording a message	N/A	ST: ConfirmAbsence	Play Error Message; Generate "Start" Event	Play Error Message; Generate "Start" Event	ST: Goodbye		
	1	2	3	4	5	6	7	8

FIG. 13A (1 of 2)



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	①	②	③	④	⑤	⑥	⑦	⑧
289	ConfirmAbsence	Replay contents of absence, prompt user to confirm;	N/A	"1" Pressed, ST: CheckComplete; "2" Pressed. ST: WhenAnotherDay	Play Error Message; Generate "Start" Event	Play Error Message; Generate "Start" Event		ST: Goodbye
290	CheckComplete	Press "1" Complete call and get confirmation number; "2" Enter an additional absence day;	N/A	"1" Pressed, ST: Goodbye; "2" Pressed. ST: WhenAnotherDay	Play Error Message; Generate "Start" Event	Play Error Message; Generate "Start" Event		ST: Goodbye
291	Entitlements	List Entitlement Day Balances, ST: MainMenu	N/A	N/A	N/A	N/A		N/A
292	ErrorState	Play standard error message; ST: Goodbye	N/A	N/A	N/A	N/A		N/A
293	Hangup	Hangup Phone ST: End	N/A	N/A	N/A	N/A		N/A
294	Goodbye	Play goodbye message; ST: Hangup	N/A	N/A	N/A	N/A		N/A

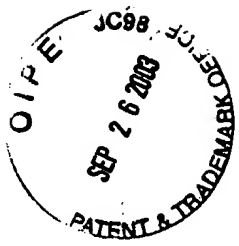
FIG. 13A (2 of 2)



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States		Events					
ST = State Transition		Start	Receive a call	Receive Valid Input	Receive Invalid Input	Timeout	Max Retries Reached
School Administration Call-in							
295	MainMenu	Press "1" School Menu; Press "2" Entitlement Types Menu	N/A	"1" Pressed ST: RecordSchoolMenu; "2" Pressed ST: RecordEntTypesMenu	Play Error Message; Generate "Start" Event	Play Error Message; Generate "Start" Event	ST: Goodbye
296	RecordSchoolMenu	Prompt for valid School Recording ID	N/A	ST: RecordSchool, or if "#" pressed ST: MainMenu	Play Error Message; Generate "Start" Event	Play Error Message; Generate "Start" Event	ST: Goodbye
297	RecordSchool	Play existing recording, if exists then prompt "1" to record new prompt, "#" to return to School Menu	N/A	"1" Pressed, record/verify prompt, ST: RecordSchoolMenu; "#" ST: RecordSchoolMenu	Play Error Message; Generate "Start" Event	Play Error Message; Generate "Start" Event	ST: Goodbye
298	RecordEntTypesMenu	Prompt for valid Entitlement Type Recording ID	N/A	ST: RecordEntTypes, or if "#" pressed ST: MainMenu	Play Error Message; Generate "Start" Event	Play Error Message; Generate "Start" Event	ST: Goodbye
299	RecordEntTypes	Play existing recording, if exists then prompt "1" to record new prompt, "#" to return to Entitlement Menu	N/A	"1" Pressed, record/verify prompt, ST: RecordEntTypesMenu; "#" ST: RecordEntTypesMenu	Play Error Message; Generate "Start" Event	Play Error Message; Generate "Start" Event	ST: Goodbye
300	ErrorState	Play standard error message; ST: Goodbye	N/A	N/A	N/A	N/A	N/A
301	Goodbye	Thank caller for using system; ST: Hangup:	N/A	N/A	N/A	N/A	N/A
302	Hangup	Hangup Phone ST: End	N/A	N/A	N/A	N/A	N/A

FIG. 13B



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States	Events						
ST = State Transition	Start	Receive a call	Receive Valid Input	Receive Invalid Input	Timeout	Max Retries Reached	
FrontLine Administration Call-in							
303	RecordFilesMenu	Prompt for the recording ID of the message file	N/A	ST: RecordFiles	Play Error Message; Generate "Start" Event	Play Error Message; Generate "Start" Event	ST: Goodbye
304	RecordFiles	Play existing recording, if exists then prompt "1" to Record new prompt, "#" to return to Record Files Menu	N/A	"1" Pressed, record/verify prompt, ST: RecordFiles; "#" ST: RecordFiles	Play Error Message; Generate "Start" Event	Play Error Message; Generate "Start" Event	ST: Goodbye
305	ErrorState	Play standard error message; ST: Goodbye	N/A	N/A	N/A	N/A	N/A
306	Goodbye	Thank caller for using system; ST: Hangup:	N/A	N/A	N/A	N/A	N/A
307	Hangup	Hangup Phone ST: End	N/A	N/A	N/A	N/A	N/A

FIG. 13C

States	Events					
ST = State Transition	Start	Receive a call	Receive Valid Input	Receive Invalid Input	Timeout	Max Retries Reached
Substitute Call-out						
308	MakeTheCall	Dial the telephone number; ST: CallAnalysis	N/A	N/A	N/A	N/A
309	CallAnalysis	Determine how the call was or was not answered	N/A	Person Answers; ST: Identify	Person does not answer;	N/A
310	Identify	Prompt for SS Number or PIN Number	N/A	ST: PresentRequest	Generate "Start" Event	N/A
311	PresentRequest	Play request, prompt substitute to "1"Replay; "2"Accept, "3"Reject	N/A	"1"Replay, Generate Start Event; "2" ST: AcceptRequest; "3" ST: RejectRequest	Play Error Message; Generate "Start" Event	Play Error Message; Generate "Start" Event
312	RejectRequest	Reject w/No more calls; "2"Reject allowing for additional calls	N/A	ST: Goodbye	Play Error Message; Generate "Start" Event	Play Error Message; Generate "Start" Event
313	AcceptRequest	Play confirmation number; ST: Goodbye	N/A	N/A	N/A	N/A
314	ErrorState	Play standard error message; ST: Goodbye	N/A	N/A	N/A	N/A
315	Goodbye	Thank caller for using system; ST: Hangup:	N/A	N/A	N/A	N/A
316	Hangup	Hangup Phone ST: End	N/A	N/A	N/A	N/A

FIG. 13D



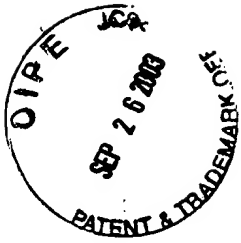
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States	Events					
ST = State Transition	Start	Receive a call	Receive Valid Input	Receive Invalid Input	Timeout	Max Retries Reached
Fax Callout						
317- MakeTheCall	Call FaxNumber ST: CallAnalysis	N/A	N/A	N/A	N/A	N/A
318- CallAnalysis	Determine if Fax Answered	N/A	Fax Answered ST: FaxSend	Fax did not Answer ST: Hangup	N/A	N/A
319- FaxSend	Send Fax ST: End					
320- ErrorState	Play standard error message; ST: Goodbye	N/A	N/A	N/A	N/A	N/A
321- Goodbye	Thank substitute using system; ST: Hangup:	N/A	N/A	N/A	N/A	N/A
322- Hangup	Hangup Phone ST: End	N/A	N/A	N/A	N/A	N/A

FIG. 13E

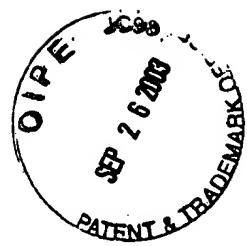
Client	Events										
	Have Data	Don't Have Data	File Created	Connect FTP	Did Not Connect to FTP	File not there	Max Tries	Startup	Bad format	Save	
States											
323 Extract	Create file ST: Send	Create File ST: Send									
324			Create FTP Session; Send File	Verify file was sent ST: Receive; Else ST: Error							
325						Check for file if pres. ST: import Else ST: Wait	Error				
326 Receive											
Import							Error	Opens files; Verify file format	Refuse all Changes	Save Changes	
327								Moves files to archive; Sets last sync dates for all files			
Cleanup											
Error											
1	2	3	4	5	6	7	8	9	10	11	12

FIG. 13F (1 of 2)



1	2	3	4	5	6	7	8	9	10	11	12
Server		Events									
States	File Found	Startup									
328 Wait	Create File ST: Import Object										
329 Import Object		Opens; Verifies; Reads; Saves or discards;									
330 Extract	Create File ST: Import Object	Create export file; ST: Send									
331 Send		Close file; copies to FTP site									

FIG. 13F (2 of 2)



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Project Name : aesop0714
Project Directory : C:\PROGRA-1\EASYSER\AESOP\
User Name :
Chart Name : Aesop0714
Chart Filename : aesopc-1.dbe
Chart Notation : IDEF1X
Date : Jul-19-1999
Logical Data Model

Report Schedule

RPTS_ID Integer <PK,AK1,AK2>
RPTS_Old1 Date Time
INST_ID Integer <FK1>
RPT_ID Integer <FK2>
RPTS_User Integer
RPTS_LastUpdate Date Time
RPTS_LastSync Date Time
RPTS_Deleted SmallInt
RPTS_RunTime VarChar(5)

Institution Level

INSLVL_ID Integer <PK,AK1,AK2>
INSLVL_Name VarChar(20)
INSLVL_Level SmallInt

Report Type

RPTT_ID Integer <PK,AK1,AK2>
RPTT_Description VarChar(20)

Report

RPT_ID Integer <PK,AK1,AK2>
RPT_Name VarChar(50)
RPT_FileName VarChar(80)
RPTT_ID Integer <FK1>
RPT_User Integer
RPT_LastUpdate Date Time
RPT_LastSync Date Time
RPT_Deleted SmallInt
ORG_ID Integer

Institution

INST_ID Integer <PK,AK1,AK2>
INST_Name VarChar(50)
INST_Parent Integer <FK2>
INST_Phone Char(15)
INST_Fax Char(15)
INST_Email VarChar(80)
INST_Addr1 VarChar(40)
INST_Addr2 VarChar(40)
INST_City VarChar(30)
INST_State Char(2)
INST_Zip Char(9)
INST_Active SmallInt
INSLVL_ID Integer <FK3>
ORG_ID Integer <FK4>
VOX_ID Integer <FK6>
TIMZ_ID Integer <FK5>
INST_CutoffTime VarChar(5)
CGRP_ID Integer <FK1>
INST_User VarChar(10)
INST_LastUpdate Date Time
INST_LastSync Date Time
INST_Deleted SmallInt
INST_Extrem_Number VarChar(25)

1

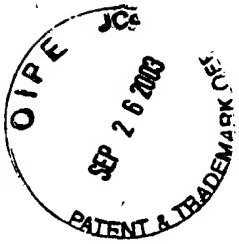
2

3

4

5

FIG 14 (1 of 10)



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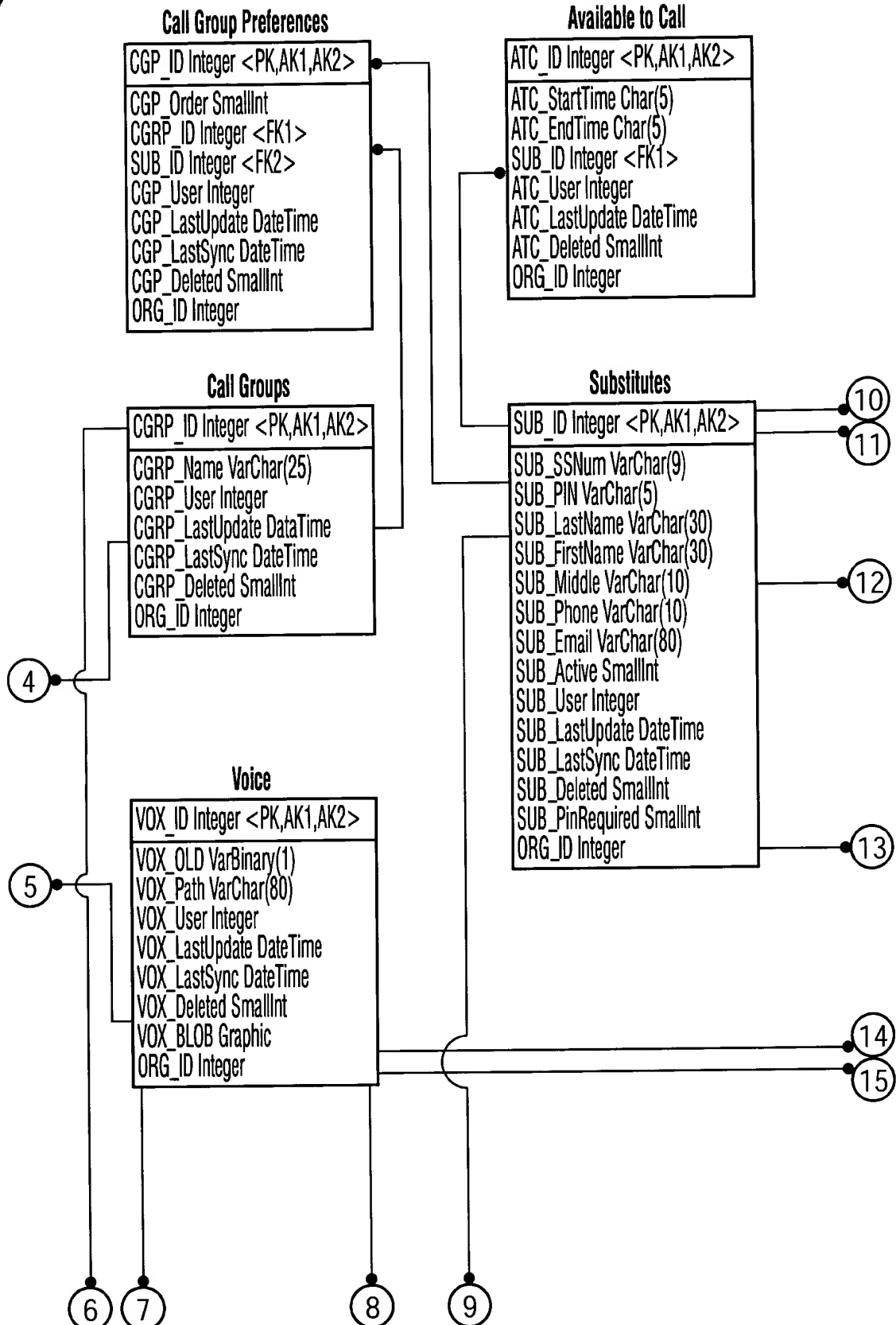


FIG 14 (2 of 10)

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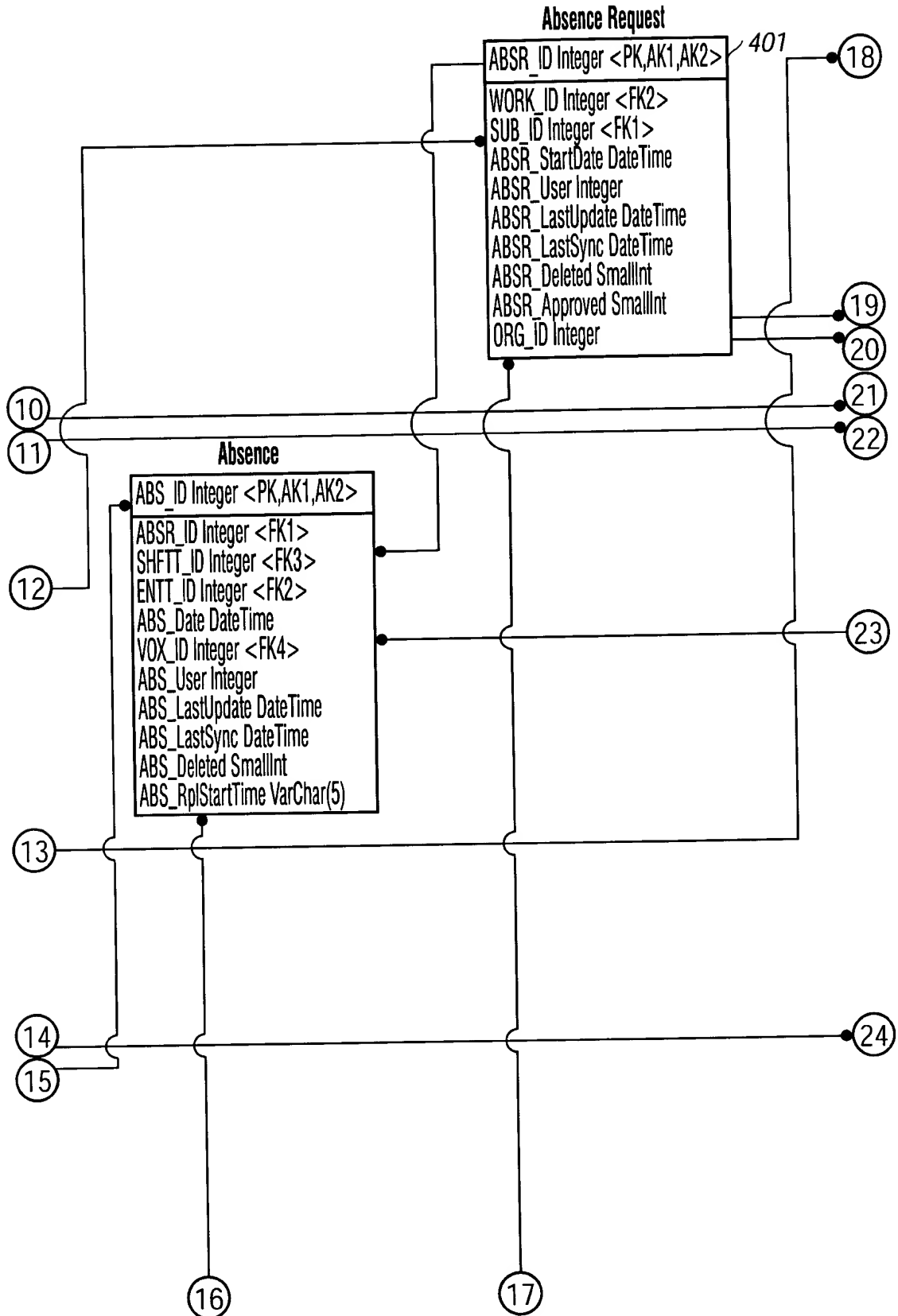


FIG 14 (3 of 10)

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Substitute Schedule

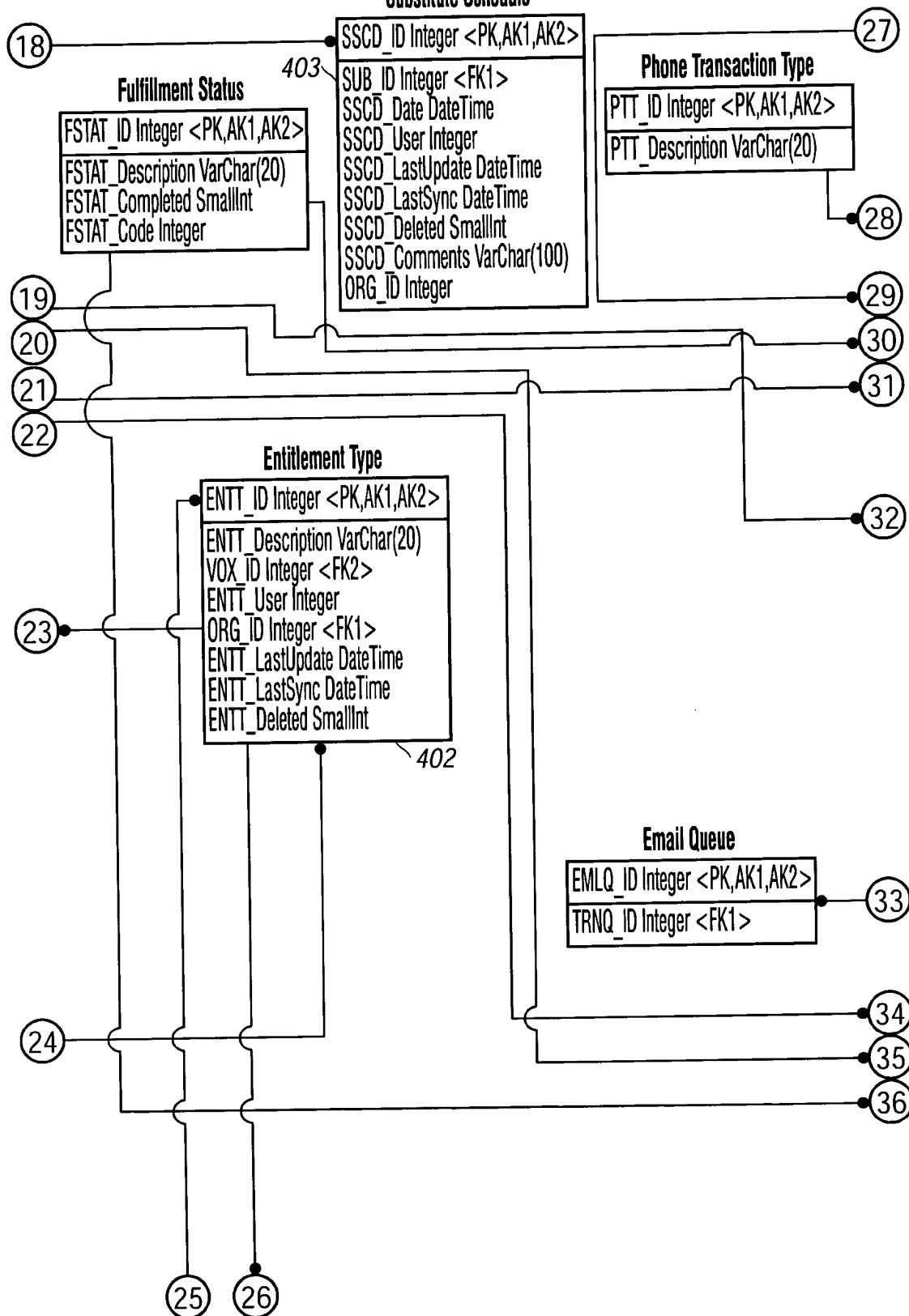


FIG 14 (4 of 10)

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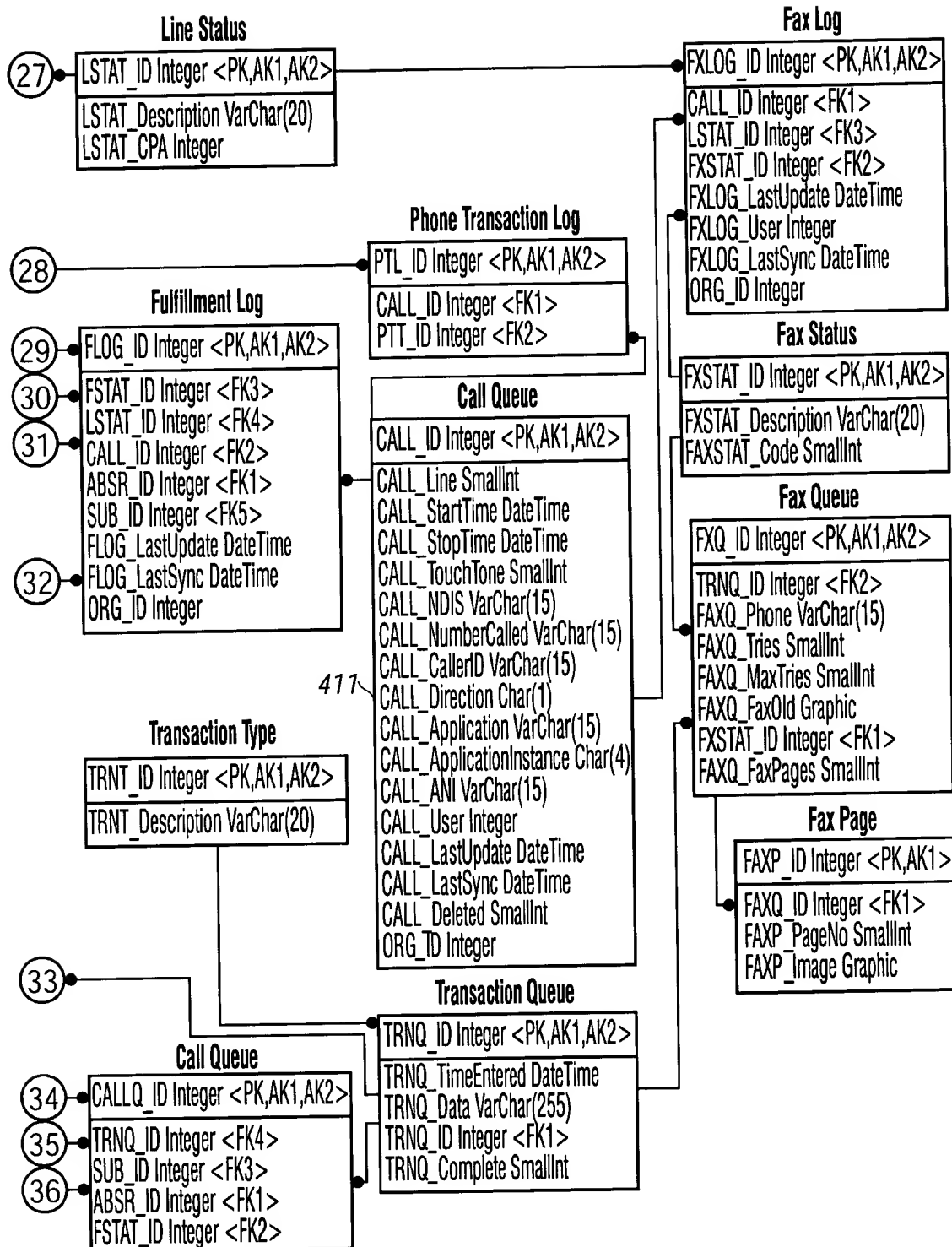


FIG 14 (5 of 10)



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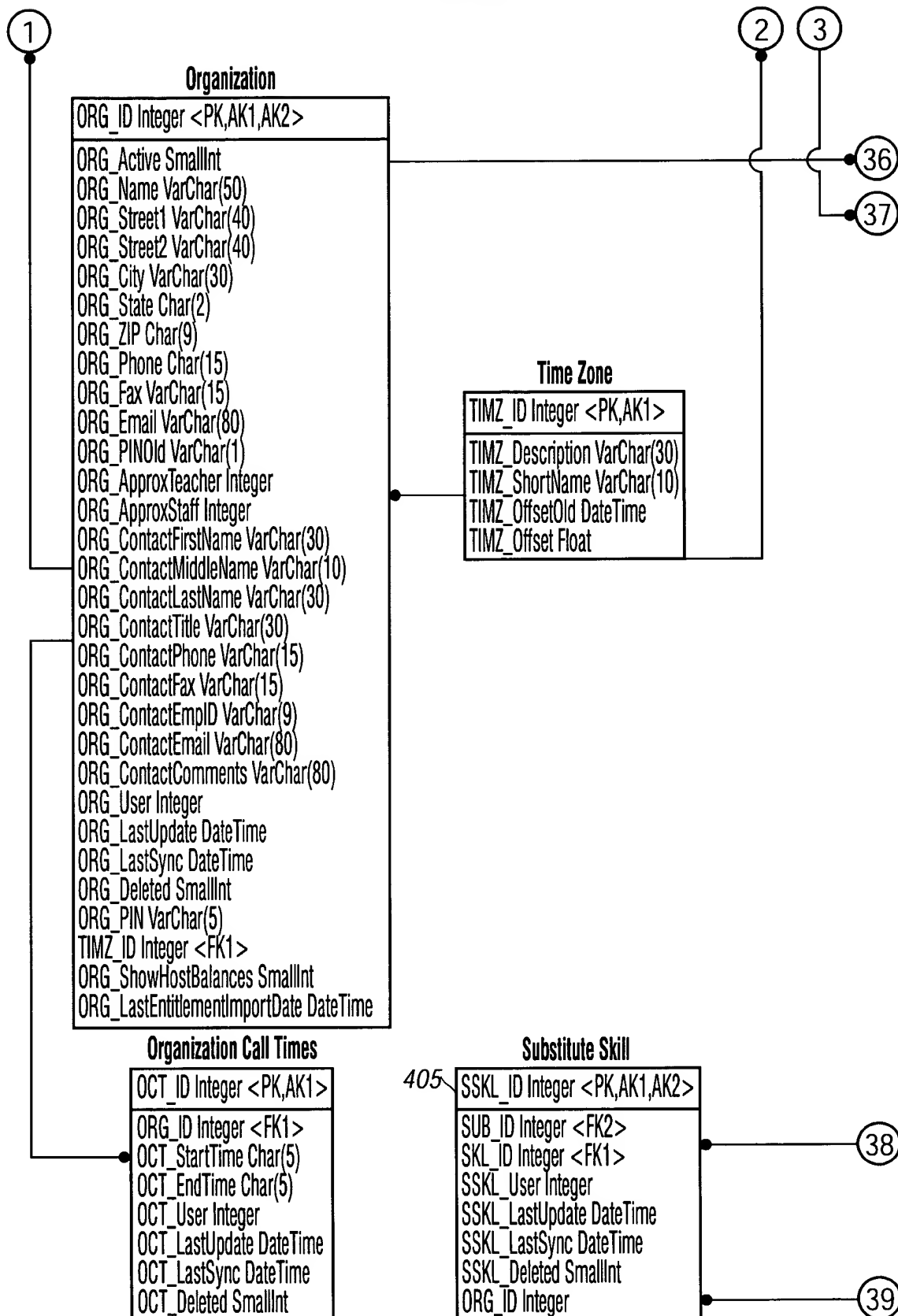


FIG 14 (6 of 10)

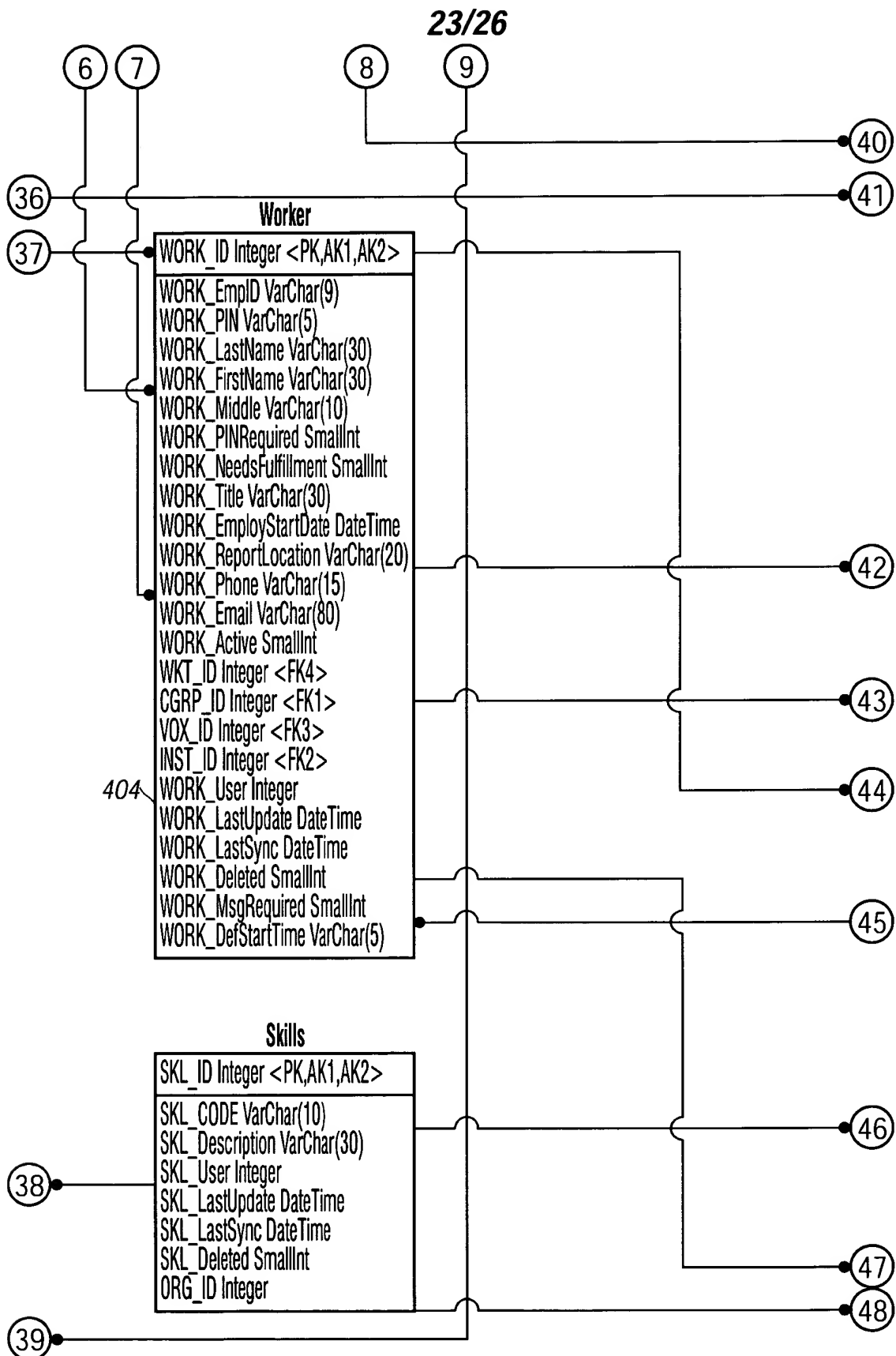
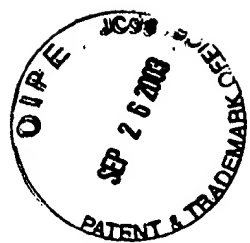


FIG 14 (7 of 10)

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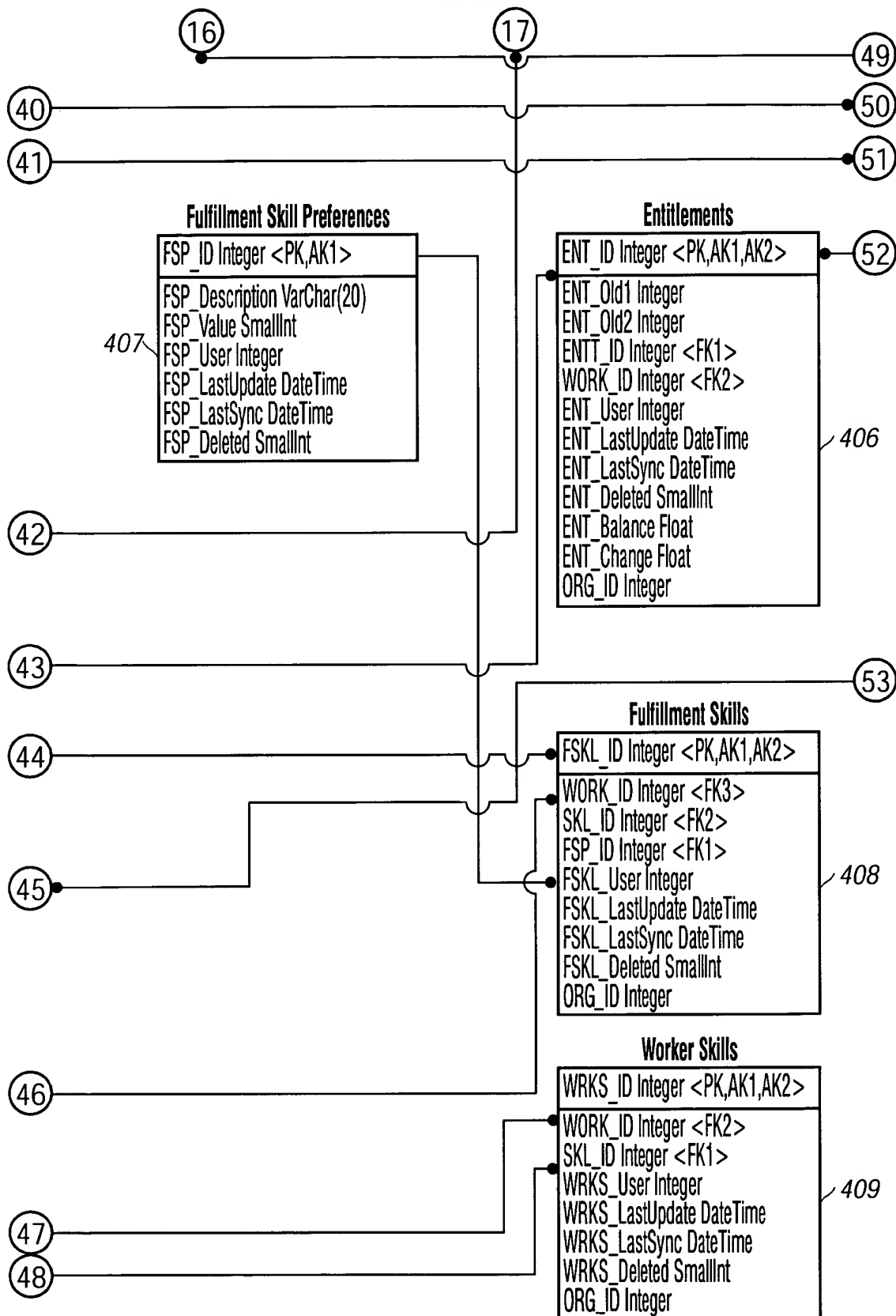


FIG 14 (8 of 10)



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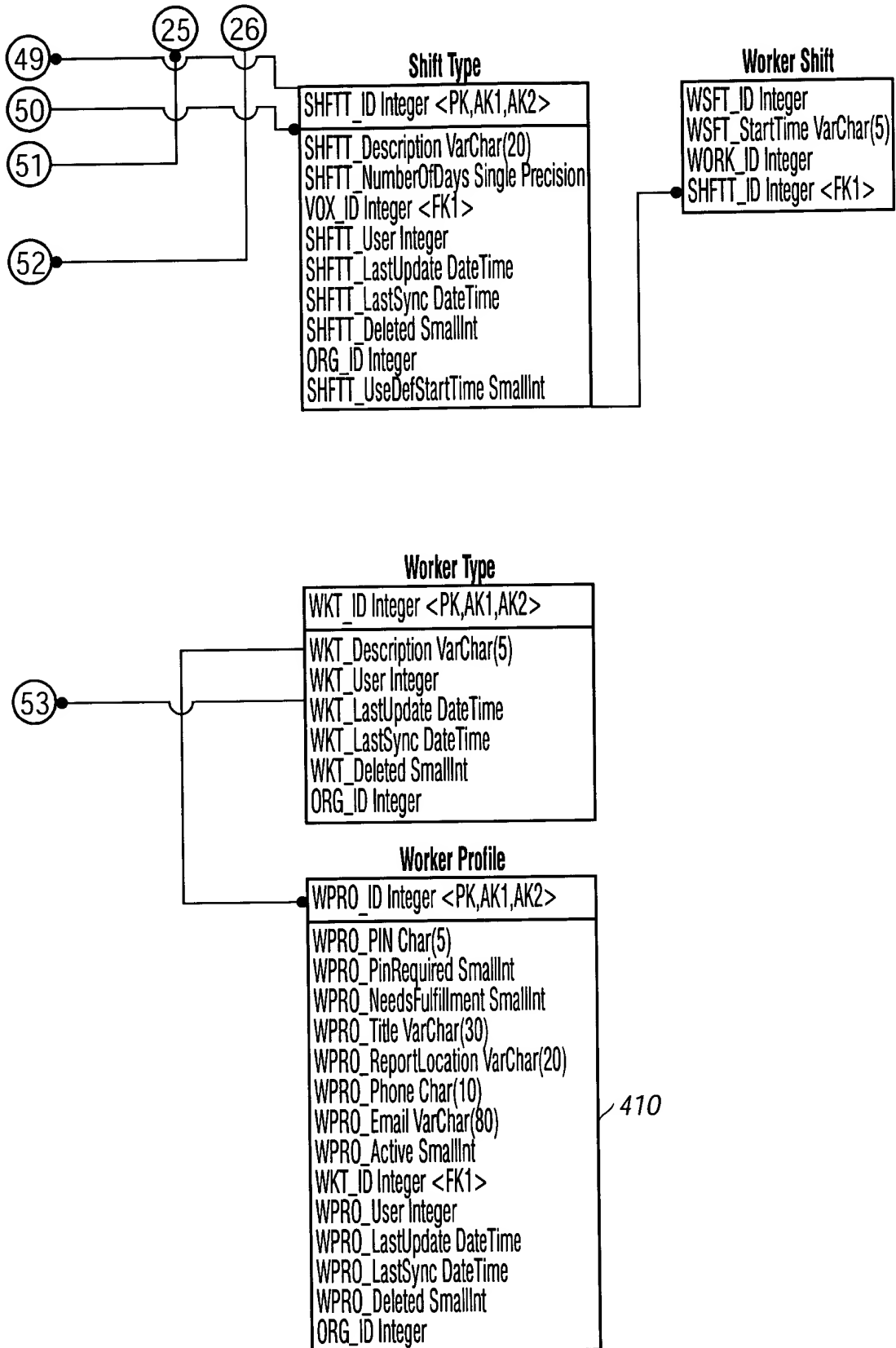


FIG 14 (9 of 10)



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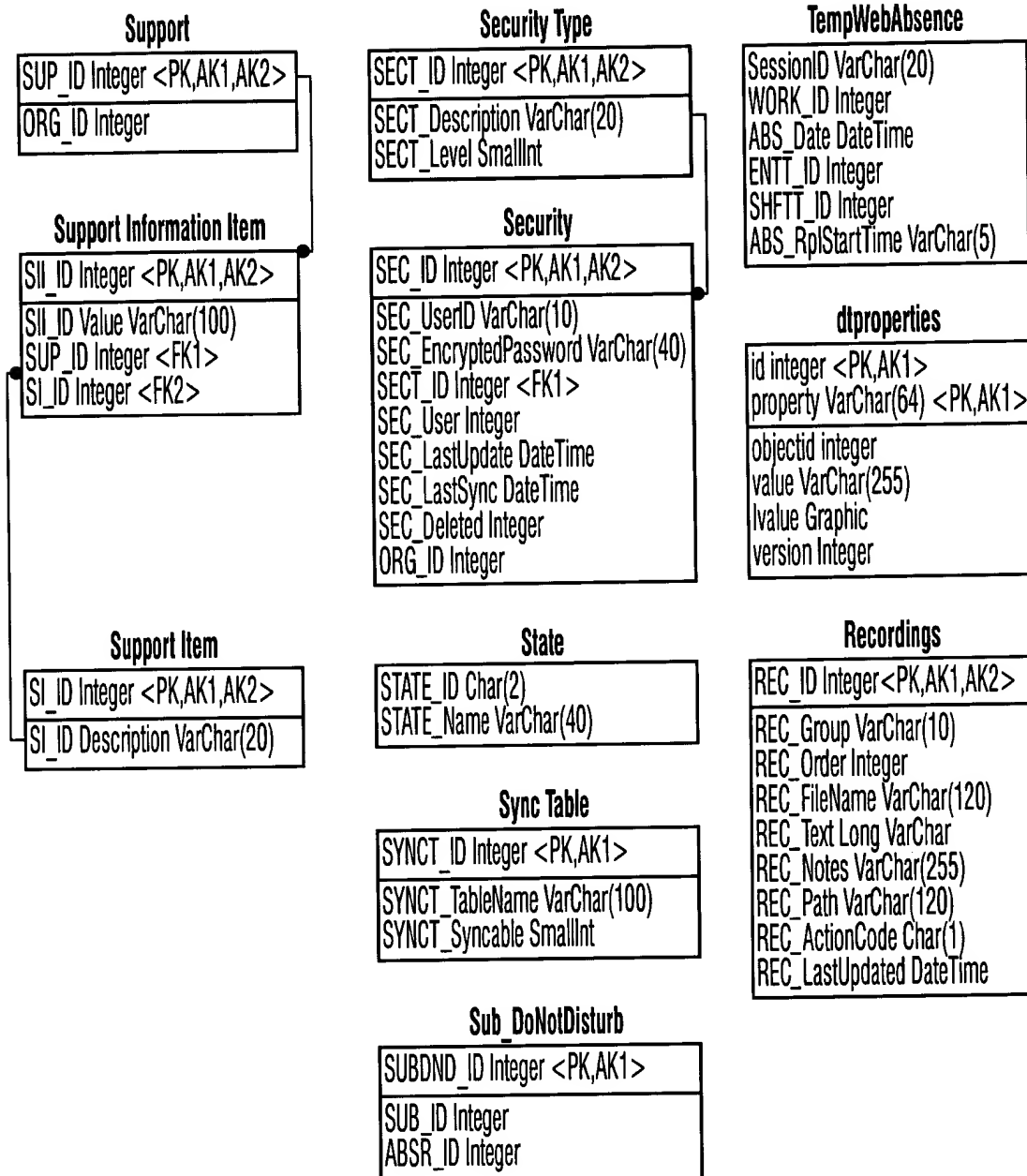


FIG 14 (10 of 10)